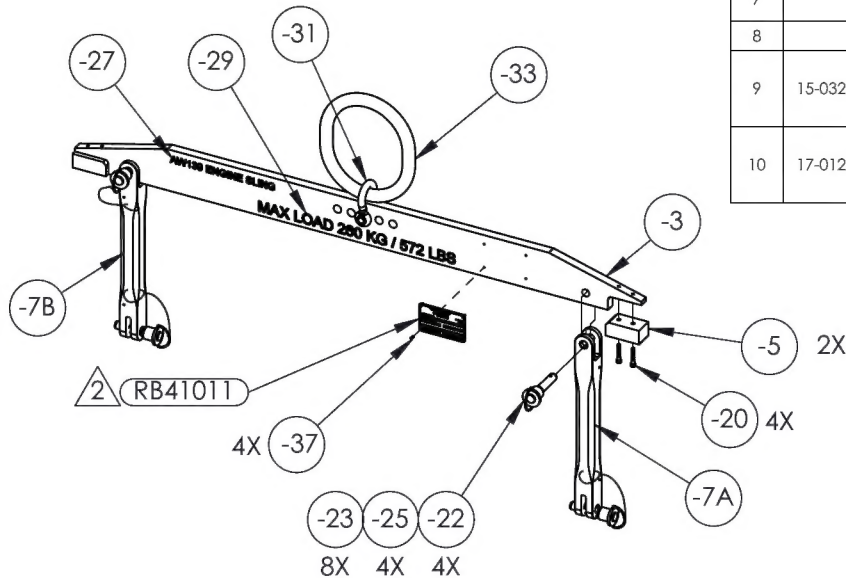
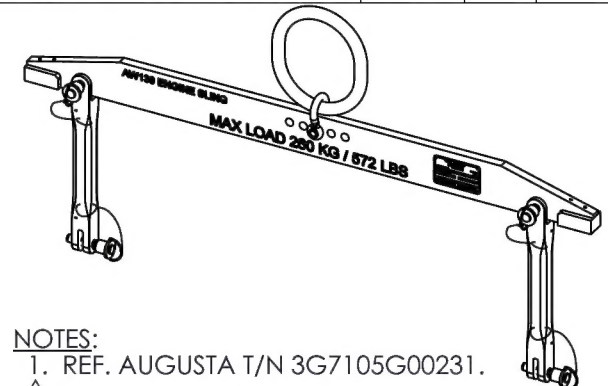


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# REVISIONS

REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		DELETED 2 SPLIT RINGS & THEIR HOLES IN -7A & -7B, WRAP LANYARD AROUND -7A & 7B PER D.W.	3/25/2009	WP	DW
2		CH'D -5, -7A & -7B MATERIAL WAS A36 IS 1018 PER D.W.	1/13/2010	WP	DW
3		CH'D MAX. LOAD FROM 260 KG TO 572 LBS., CH'D -3 THICKNESS FROM .590 TO .625, CH'D -7A & 7B HOLES FROM Ø.512 TO Ø.500 & END DIM'S FROM .300 TO .310, CENTER OPENING FROM .610 TO .630, & END RADIUS FROM .605 TO .625, CH'D -9 Ø FROM 1.024 TO 1.00 PER D.W.	5/12/2010	RJC	RW
4		CH'D MAX. LOAD EMBLEM -29, CH'D -7A, -7B, -11 & ADDED -31, -33 BOM INFO. ADDED REF. DIMS. -3, -7A, -7B, CH'D -7A & -7B DIM'S FROM .630 TO .640 +.010/-0.00, & .321 TO .331 +.010/-0.00 PER S.E.	4/26/2011	RJC	RW
5		ADDED -7A & -7B STRESS RELIEVE PER R.W. CORRECTED Ø.551 PLACEMENT PER G.E. ADDED NOTE 1 -7A & -7B, ADDED -37 PER R.W.	6/27/2011	RJC	RW
6		REPLACED -9, -11, -13, -15, -17, & -19 WITH -22. ADDED -37. CH'D DIM'S FROM .XXX TO .XX ON NON-CRITICAL PARTS. -7A & -7B CH'D HOLES WAS Ø.500 AND .551 IS 2X Ø.500-.505 ✓ Ø.56 X 45°	8/7/2013	RJC	DW
7		DELETED -1, CH'D -3 FROM 1018 TO 6061, CH'D -5 TO BOLT ON, CH'D -7A & 7B TO ASSY, ADDED -10, -12, -14, -16, -18 & -20.	10/4/2013	JAG	DW
8		DELETED -10, -12, -14, -16, & -18. CH'D -7A & -7B WAS ASSY IS SINGLE PIECE, WAS 1018 IS 6061	1/23/2014	PMW	DW
9	15-0327	UPDATED TO NEW DRAFTING STANDARDS. CH'D PLACARD TO DART, REMOVED DASH No, AND DELETED DWG. ADDED ENGRAVE PLACARD NOTE. -3 CH'D DIM WAS 1.00 IS 5X 1.00. -7A & -7B CH'D DIMS WAS .64 IS .69, WAS .31 IS .28, WAS .33 IS .34 +.01 -.00. ADDED DIMS 2X TRUE Ø.09 THRU ALL, 2.60, 2.60, 2X .31.	10/8/2015	DPD	JAG
10	17-0129	-3 CH'D DIM'S WAS 26.94 IS (26.94), WAS 2X .80 IS 3X .80. ADDED DIM'S 4X Ø.089 ✓.25, 2X .65, 2X 1.700, 2X 2.950, 2X 4.23. ADDED NOTE Δ. -5 CH'D DIM WAS 2X Ø.201 THRU ALL L J Ø.375 ✓.19 IS 2X Ø.221 THRU ALL L J Ø.375 ✓.19. -7A, 7B ADDED NOTE Δ. -37 CH'D B/O INFO WAS 1/8 #90081A074 IS #2 X 1/4 #90081A077.	6/1/2017	RJC	JAG



## NOTES:

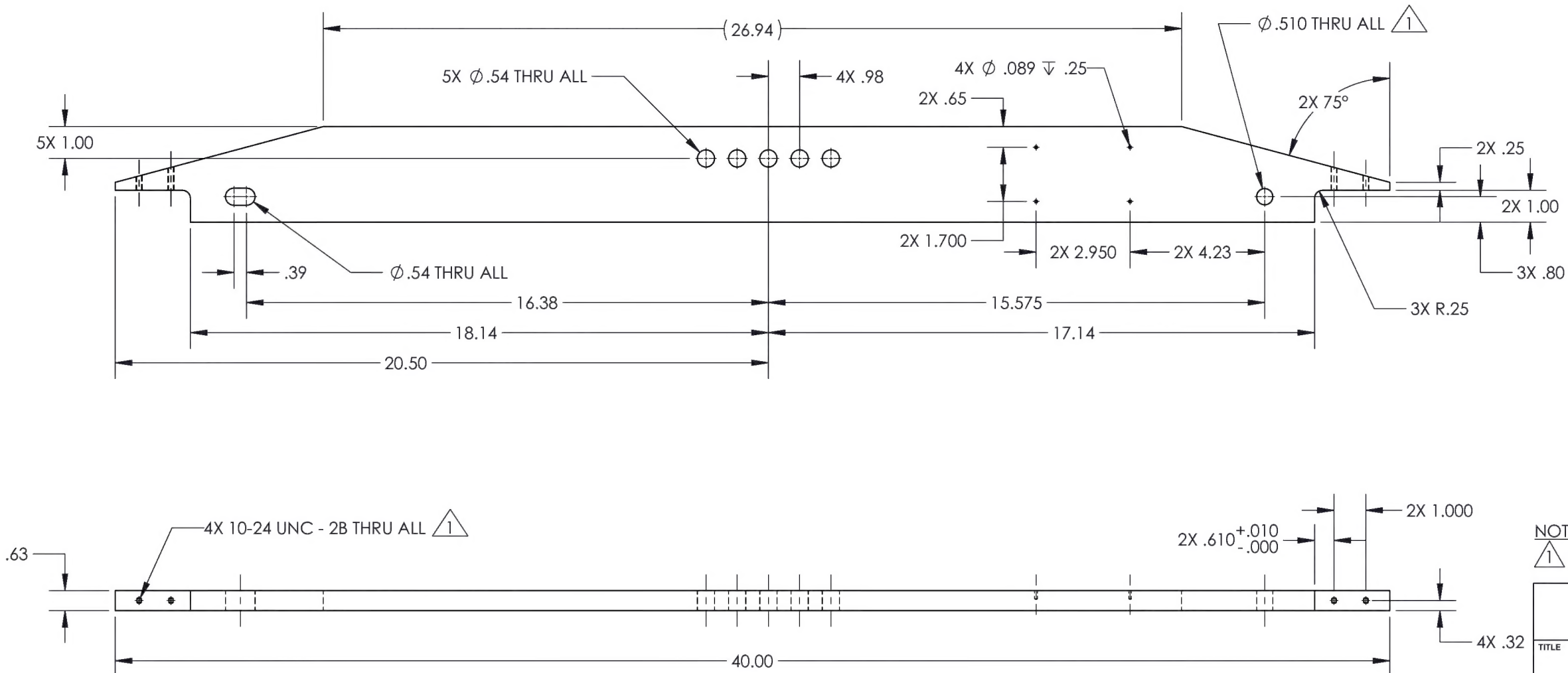
- REF. AUGUSTA T/N 3G7105G00231.
- ENGRAVE RB41011 PLACARD WITH T/N, S/N, "SWL 260 KG/572 LBS," "WEIGHT TESTED TO 390 KG/ 858 LBS."

ASSY -7B	ASSY -7A	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-3	1	SPREADER BAR	6061-T6		2
			-5	2	BLOCK	6061-T6		3
			-7A	1	RIGHT ARM	6061-T6		4
			-7B	1	LEFT ARM	6061-T6		5
		B/O	-20	4	SOCKET HEAD CAP SCREW	STEEL	10-24 X 1-1/8 (MCMaster-CARR #91251A248)	1
		B/O	-22	4	QUICK RELEASE PIN	S.S.	Ø1/2 X 1-1/2 USABLE (MCMaster-CARR #92384A092)	1
		B/O	-23	8	FERRULE	ALUMINUM	Ø1/16 X 3/8 (MCMaster-CARR #3896T31)	1
		B/O	-25	4	LANYARD	COATED STEEL	Ø1/16 X 12 (CARR LANE #CL-2-C)	1
		B/O	-27	1	EMBLEM	VINYL	BLACK, CUT VINYL (SIGNS NOW)	6
		B/O	-29	1	EMBLEM	VINYL	BLACK, CUT VINYL (SIGNS NOW)	7
		B/O	-31	1	7/16" SCREW PIN SHACKLE	STEEL	3/4 X 1/2 X 1-1/2 (MCMaster-CARR #3560T46)	1
		B/O	-33	1	OBLONG LINK	STEEL	Ø3/8 X 2-1/2 X 3-1/2 (MCMaster-CARR #3119T2)	1
		B/O	-37	4	DRIVE SCREW	COATED STEEL	#2 X 1/4 (MCMaster-CARR #90081A077)	1
		B/O		1	DART PLACARD	ALUMINUM	RB41011	1
ASSY -7B	ASSY -7A							

			
TITLE			
AW139 ENGINE SLING			
DWG NO.			REV
RBW7105G00231-3G			10
MAT'L		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125/✓	
HEAT TREAT			
FINISH			
SPEC			
DRAWN BY:	RJC 06/01/2017	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED:	SM 06/01/2017	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR:	AA 06/05/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR:	JL 06/13/2017	USED ON MODEL	
APPROVED:	JAG 06/29/2017	AW139	
SCALE	1:12	DATE	6/1/2017
		SHEET 1 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3		CH'D -3 THICKNESS FROM .590 TO .625,	5/21/2010	RJC	RW
4		ADDED REF. DIMS. -3,	4/26/2011	RJC	RW
7		CH'D MATERAIL FROM 1018 TO 6061	10/14/2013	JAG	DW
9	15-0327	-3 CH'D DIM WAS 1.00 IS 5X 1.00.	10/8/2015	DPD	JAG
10	17-0129	-3 CH'D DIM'S WAS 26.94 IS (26.94), WAS 2X .80 IS 3X .80. ADDED DIM'S 4X Ø.089 $\sqrt{.25}$ , 2X .65, 2X 1.700, 2X 2.950, 2X 4.23. ADDED NOTE $\Delta$ .	6/1/2017	RJC	JAG



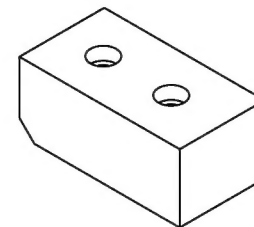
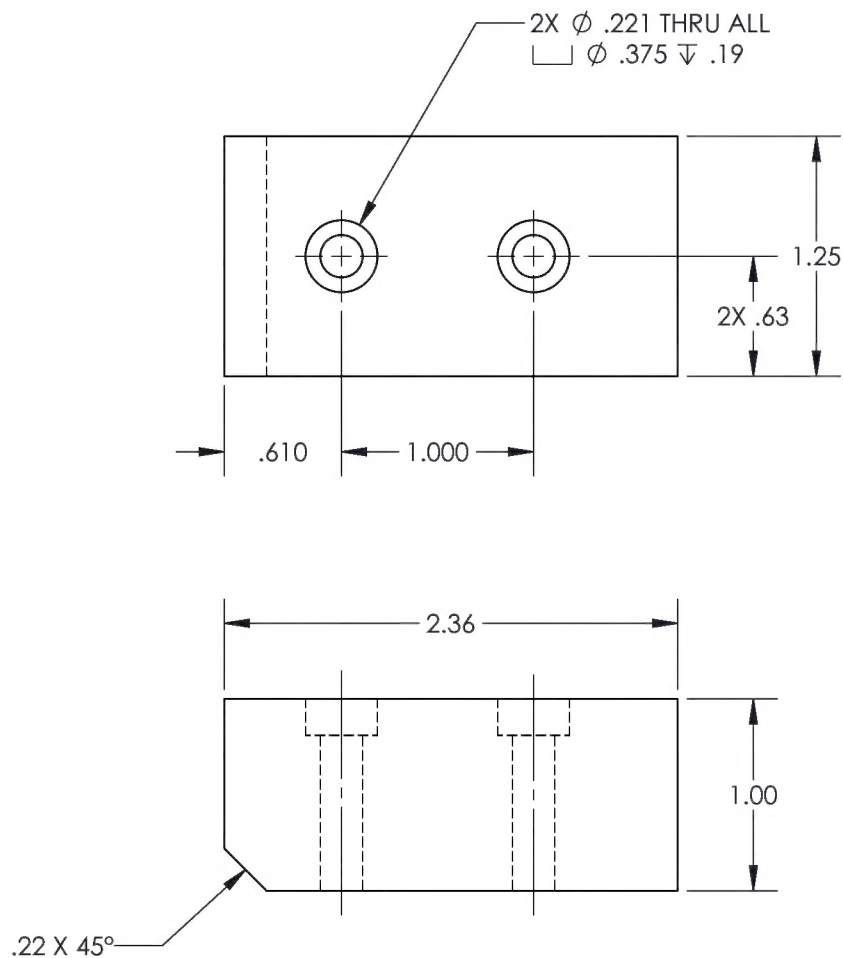
NOTE:  
1 NO POWDER COAT THIS SURFACE.

			
TITLE			
AW139 ENGINE SLING			
DWG NO.			REV
RBW7105G00231-3G-3			10
MAT'L 6061-T6		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH POWDER COAT SAFETY ORANGE		.XXX ± .005 FRACTIONS ± 1/8	
SPEC		.XX ± .01 ANGLES ±.5°	
		.X ± .1 SURFACES = 125/√	
DRAWN BY: RJC 06/01/2017		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: SM 06/01/2017		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: AA 06/05/2017		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: JAG 06/13/2017		USED ON MODEL	
APPROVED: JAG 06/29/2017		AW139	
SCALE 1:4		DATE 6/1/2017	SHEET 2 OF 7

SPREADER BAR

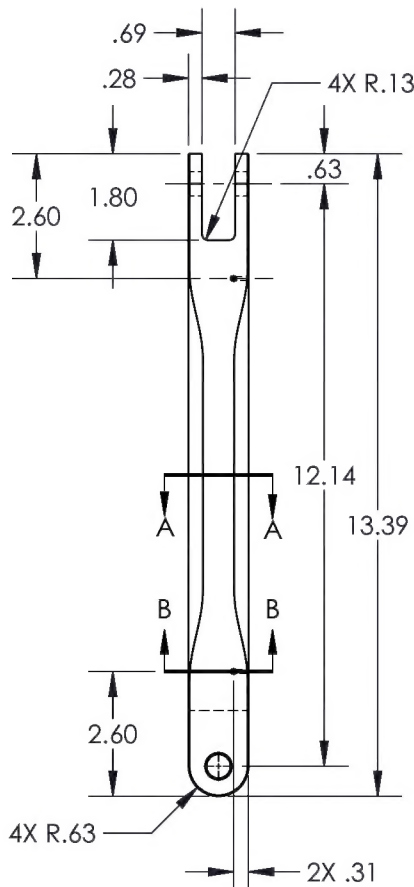
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		CH'D -5, -7A & 7B MATERIAL WAS A36 IS 1018 PER D.W.	1/13/2010	WP	DW
7		CH'D -5 TO BOLT ON.	10/4/2013	JAG	DW
10	17-0129	-5 CH'D DIM WAS 2X Ø.201 THRU ALL $\square$ Ø.375 $\nabla$ .19 IS 2X Ø.221 THRU ALL $\square$ Ø.375 $\nabla$ .19.	6/1/2017	RJC	JAG





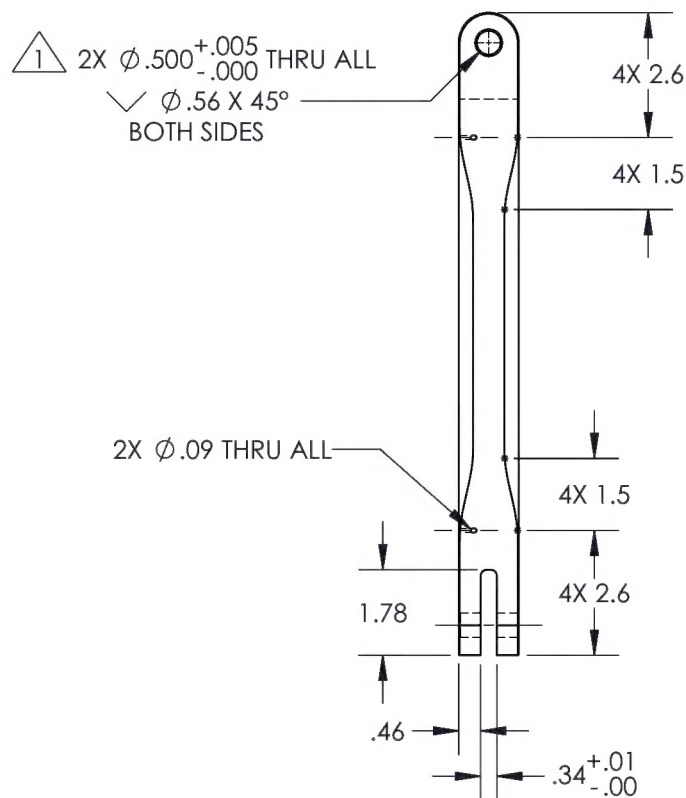
(5)  
 BLOCK

<b>DART</b> AEROSPACE	
TITLE AW139 ENGINE SLING	
DWG NO. RBW7105G00231-3G-5	REV 10
MAT'L 6061-T6	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH POWDER COAT SAFETY ORANGE	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125°
DRAWN BY: RJC 06/01/2017	1. BREAK ALL SHARP EDGES
CHECKED: SM 06/01/2017	.015 x 45° OR .015R
OPPS APPR: AA 06/05/2017	2. DIMENSIONAL LIMITS APPLY
QA APPR: JL 06/13/2017	AFTER PLATING
APPROVED: JAG 06/29/2017	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:1	DATE 6/1/2017
	USED ON MODEL
	AW139
	SHEET 3 OF 7



-7A  
RIGHT ARM

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		DELETED 2 SPLIT RINGS & THEIR HOLES IN <b>-7A &amp; -7B</b> , WRAP LANYARD AROUND <b>-7A &amp; 7B</b> PER D.W	3/25/2009	WP	DW
2		CH'D <b>-5, -7A &amp; -7B</b> MATERIAL WAS A36 IS 1018 PER D.W.	1/13/2010	WP	DW
3		CH'D <b>-7A &amp; -7B</b> HOLES FROM Ø.512 TO Ø.500 & END DIM'S. FROM .300 TO .310, CENTER OPENING FROM .610 TO .630, & END RADIUS FROM .605 TO .625	5/21/2010	RJC	RW
4		ADDED REF. DIMS <b>-7A, -7B</b> , CH'D <b>-7A &amp; -7B</b> DIM'S FROM .630 TO .640 +.010/- .000, & .321 TO.331 +.010/- .000 PER S.E.	4/26/2011	RJC	RW
5		ADDED <b>-7A &amp; -7B</b> STRESS RELIEVE PER R.W. CORRECTED Ø.551 PLACEMENT PER G.E. ADDED NOTE 1 <b>-7A &amp; -7B</b> , ADDED <b>-37</b> PER R.W.	6/27/2011	RJC	RW
6		<b>-7A &amp; -7B</b> CH'D HOLES WAS Ø.500 AND .551 IS 2X Ø.500-.505  Ø.56 X 45°	8/7/2013	RJC	DW
7		CH'D <b>-7A &amp; 7B</b> TO ASSY, ADDED <b>-10, -12, -14, &amp; -18</b> .	10/4/2013	JAG	DW
8		CH'D <b>-7A &amp; -7B</b> WAS ASSY IS SINGLE PIECE, WAS 1018 IS 6061	1/23/2014	PMW	DW
9	15-0327	<b>-7A</b> CH'D DIMS WAS .64 IS .69, WAS .31 IS .28, WAS .33 IS .34 +.01 -.00. ADDED DIMS 2X TRUE Ø.09 THRU ALL, 2.60, 2.60, 2X .31.	10/9/2015	DPD	JAG
10	17-0129	<b>-7A</b> ADDED NOTE  .	6/1/2017	RJC	JAG



1 NO POWDER COAT THIS SURFACE.

			
TITLE			
AW139 ENGINE SLING			
DWG NO.			REV
RBW7105G00231-3G-7A			10
MAT'L 6061-T6		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH POWDER COAT SAFETY ORANGE		.XXX ± .005 FRACTIONS ± 1/8	
SPEC		.XX ± .01 ANGLES ±.5°	
		.X ± .1 SURFACES = 125/√	
DRAWN BY: RJC 06/01/2017		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: SM 06/01/2017		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: AA 06/05/2017		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: JL 06/13/2017		USED ON MODEL	
APPROVED: JAG 06/29/2017			
SCALE 1:4	DATE 6/1/2017	SHEET 4 OF 7	

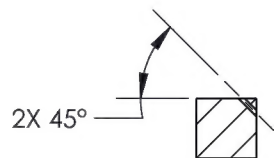


SECTION A-A

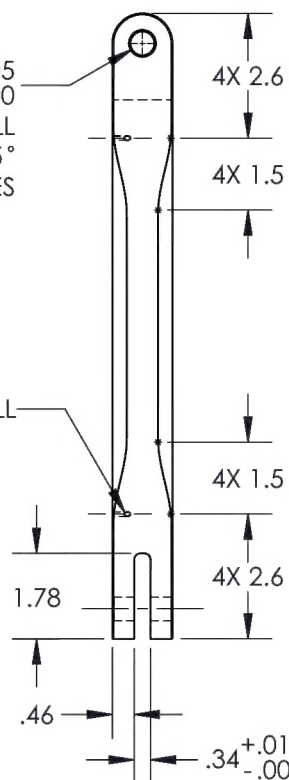
1.25

1.25

4X R.30





2X TRUE  $\varnothing$ .09 THRU ALL-



(-7B)

LEFT ARM

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		DELETED 2 SPLIT RINGS & THEIR HOLES IN <b>-7A &amp; -7B</b> , WRAP LANYARD AROUND <b>-7A &amp; 7B</b> PER D.W	3/25/2009	WP	DW
2		CH'D <b>-5, -7A &amp; 7B</b> MATERIAL WAS A36 IS 1018 PER D.W.	1/13/2010	WP	DW
3		CH'D <b>-7A &amp; 7B</b> HOLES FROM Ø.512 TO Ø.500 & END DIM'S. FROM .300 TO .310, CENTER OPENING FROM .610 TO .630, & END RADIUS FROM .605 TO .625	5/21/2010	RJC	RW
4		ADDED REF. DIMS. <b>-7A, -7B</b> , CH'D <b>-7A &amp; -7B</b> DIM'S FROM .630 TO .640 +.010/- .000, & .321 TO.331 +.010/- .000 PER S.E.	4/26/2011	RJC	RW
5		ADDED <b>-7A &amp; -7B</b> STRESS RELIEVE PER R.W. CORRECTED Ø.551 PLACEMENT PER G.E. ADDED NOTE <b>1 -7A &amp; -7B</b> , ADDED <b>-37</b> PER R.W.	6/27/2011	RJC	RW
6		<b>-7A &amp; -7B</b> CH'D HOLES WAS Ø.500 AND .551 IS 2X Ø.500-.505  Ø.56 X 45°	8/7/2013	RJC	DW
7		CH'D <b>-7A &amp; 7B</b> TO ASSY, ADDED <b>-10, -12, -16, &amp; -18</b> .	10/4/2013	JAG	DW
8		CH'D <b>-7A &amp; -7B</b> WAS ASSY IS SINGLE PIECE, WAS 1018 IS 6061	1/23/2014	PMW	DW
9	15-0327	<b>-7A</b> CH'D DIMS WAS .64 IS .69, WAS .31 IS .28. WAS .33 IS .34 +.01 -.00. ADDED DIMS 2X TRUE Ø.09 THRU ALL, 2.60, 2.60, 2X .31.	10/9/2015	DPD	JAG
10	17-0129	<b>-7B</b> ADDED NOTE  .	6/1/2017	RJC	JAG



1 NO POWDER COAT THIS SURFACE.

			
TITLE			
AW139 ENGINE SLING			
DWG NO.			REV
RBW7105G00231-3G-7B			10
MAT'L 6061-T6		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH POWDER COAT SAFETY ORANGE		.XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125/√	
SPEC		1. BREAK ALL SHARP EDGES .015 x .45" OR .015R	
DRAWN BY:	RJC 06/01/2017	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
CHECKED:	SM 06/01/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
OPPS APPR:	AA 06/05/2017	USED ON MODEL	
QA APPR:	JL 06/13/2017		
APPROVED:	JAG 06/29/2017		
SCALE	1:4	DATE	6/1/2017
		SHEET 5 OF 7	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

1/2 ARIAL FONT

(.50)

AW139 ENGINE SLING

(7.37)

(-27)

EMBLEM

<b>DART</b> AEROSPACE	
TITLE AW139 ENGINE SLING	
DWG NO. RBW7105G00231-3G-27	REV 10
MAT'L VINYL	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125°
DRAWN BY: RJC 06/01/2017	1. BREAK ALL SHARP EDGES
CHECKED: SM 06/01/2017	.015 x 45° OR .015R
OPPS APPR: AA 06/05/2017	2. DIMENSIONAL LIMITS APPLY
QA APPR: JL 06/13/2017	AFTER PLATING
APPROVED: JAG 06/29/2017	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	AW139
SCALE 1:1	DATE 6/1/2017
	SHEET 6 OF 7

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3		CH'D MAX. LOAD FROM 260 KG TO 572 LBS.	5/21/2010	RJC	RW
4		CH'D MAX. LOAD EMBLEM -29	4/21/2011	RJC	RW

3/4 ARIAL FONT

(.75) MAX LOAD 260 KG / 572 LBS (13.88)

(-29)  
EMBLEM

<b>DART AEROSPACE</b>	
TITLE AW139 ENGINE SLING	
DWG NO. RBW7105G00231-3G-29	REV 10
MAT'L VINYL	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125°
DRAWN BY: RJC 06/01/2017	1. BREAK ALL SHARP EDGES
CHECKED: SM 06/01/2017	.015 x 45° OR .015R
OPPS APPR: AA 06/05/2017	2. DIMENSIONAL LIMITS APPLY
QA APPR: JL 06/13/2017	AFTER PLATING
APPROVED: JAG 06/29/2017	3. INTERPRET DIM AND TOL PER
SCALE 1:2	ASME Y14.5M-2009
DATE 6/1/2017	USED ON MODEL
SHEET 7 OF 7	AW139